

Department of Chemistry & Physics

CHEM 1031. GENERAL CHEMISTRY LABORATORY. (1-0-3). Basic chemistry experiments.

Prerequisite: credit for 1030 or equivalent.

Course Content

Experiments:

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| 1. Metric System | 7. Reaction of Magnesium with Air |
| 2. Density of a Mineral and Salt Water | 8. Sequence of Copper Reactions |
| 3. Chemical Reactions: Signs, Classifications, and Equations | 9. Introduction to Titration |
| 4. Qualitative Analysis of Unknown Household Chemicals | 10. Charles' Law Experiment <u>and</u> Preparation of "Gold" Pennies |
| 5. Evaluation of the Gas Law Constant | Make-up Lab |
| 6. Separation of Mixtures | Final Exam, Check-out |

Grading	Lab reports will be evaluated using the grading form.		The final grade will be based on the following:		
	Pre-lab Quizzes	20% (55 pts: 10 x 5pts)	A	90%	and above
	Lab Reports	60% (165 pts: 10 x15 pts)	B	80-89%	
	Final Exam	20% (55 pts total)		C	
	70-79%				
	D	60-69%			
	F	59% and below			

Attendance Attendance for all labs with proper safety equipment and proper attire is required. ONE excused absence, approved by the instructor in advance, may be made up during the scheduled make-up lab period.

Safety Safety in the chemistry laboratory is a top priority. Appropriate attire and safety equipment must be worn and safety regulations adhered to at all times. A student showing up for lab without required safety attire/equipment will not be permitted to enter the lab. Failure to follow safety rules will result in removal from the laboratory and a zero grade for that lab report with no allowance for a make-up.

Course Goals

This course is intended:

1. To introduce students to the laboratory aspects of chemistry.
2. To require application of mathematical concepts in chemistry.
3. To instill safe chemical practices in our students.
4. To allow students to see chemistry in action and perform experiments on their own or in groups.
5. To demonstrate the basic techniques that will be applied in more advanced levels of laboratory work.

Course Objectives

The student who successfully completes this course should be able:

1. To manipulate mathematical equations that pertain to chemistry.
2. To use common laboratory glassware and equipment.
3. To act safely in the laboratory.
4. To analyze or synthesize complex matters in a reasonable and orderly manner.
5. To solve problems in a timely manner.

It is the policy of NSU to accommodate students with disabilities, pursuant to federal law, state law, and the University's commitment to equal educational opportunities. Any student with a disability who needs accommodation, for example in seating placement or in arrangements for examinations, should inform the instructor at the beginning of the course. Students with disabilities are encouraged to contact Disability Services, which is located in Kyser Hall, room 237, telephone 357-6950 or (TTD) 357-4393 or disability@nsula.edu.

